

From owner-qrp-1@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: Ed Tanton N4XY <n4xy@avana.net>  
Subject: [2533] 4K1A QSL  
Message-ID: <326CCDDE.4C0E@avana.net>

Hi everyone... got a nice card in the mail yesterday marked to:  
'N4XY/QRP' from: 4K1A . Nick UZ1PWA was operating from Molodezh-  
naya Base in Antarctica when I worked him QRP in 1991. 14MHz CW  
RST: 599. Made my day.

--

72/73

Ed Tanton N4XY            EMAIL: n4xy@avana.net            TEL: (770)579-3933  
Voice/MBX/FAX  
189 Pioneer Trail, Marietta, GA 30068-3466

QRP-ARCI#7663 G-QRP#6779 OK-QRP#172 QRP-L#758 AdvRC#140 NORCAL#1779  
NCDXF SEDXC  
Life Member: ARRL AMSAT IDRA INDEXA QCWA            URL:  
Coming Soon

"Think you can, think you can't: either way you're right!" Henry Ford

From owner-qrp-1@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: jim seeber <u1002895@warwick.net>  
Subject: [2560] A3S tribander trouble  
Message-ID: <326D73FC.64B3@warwick.net>

Hi all; the week before the arci test, the swr on the  
a3s went nuts, I figured it was due for fresh coax so got  
that done, with no help. When I cranked up the power to  
100watts the SWR on the mfj tuner would start moving down  
slowly.

I lowered it to the peak of the roof (i use a RS telescoping  
mast on the side of house) and cleaned all connections with sand-  
paper and fine steel wool and blew out the traps with contact  
cleaner and compressed air. now things are back to normal but  
i decided to adjust the driven element for cw portion (was ssb fm  
previous owner) and not much luck.

10 meters is great but 20 and 15 arent. QUESTION (finally)  
I never touched the reflector or director, are these important?  
Do they have a bearing on SWR readings down in the shack?  
I suppose i shud clean them also? Is there a procedure i could  
follow to adjust things so it will be happy at 14025 and 21025?

Many tnx for any tips and hints...73

Jim KW3U pike county PA. ic-725/hw-8/argo 505/OHR sprint/OHR spirit  
(AND LOTTSA BATTERIES!!!) : }

From owner-qrp-1@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: Randy Kaufman <krandy@hubcap.clemson.edu>  
Subject: [2559] Altoids tins  
Message-ID: <199610221811.0AA07867@hubcap.clemson.edu>

Gang-

I have a handful of these. If anyone needs one, just email your  
postal addr, and I'll gladly send one!

73 Randy

+-----+  
Randy Kaufman  
WD4LUJ QRP-L #776  
krandy@hubcap.clemson.edu  
+-----+

From owner-qrp-1@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: JEVERHART@cayman.litc.lockheed.com  
Subject: [2548] Antenna and Cable Web Site  
Message-ID: <961022123803.20800db7@cayman.vf.mmc.com>

Gang,

Here is another web site for an antenna wire and cable dealer. The dealer is  
one who is familiar to many in the mid-Atlantic states because he frequents  
many hamfests in the area.

The dealer is The RF Connection located in Gaithersburg, MD and the web  
address is:

<http://www.therfc.com/>

The web page lists prices for his stock along with some technical info on  
attenuation and power handling capability of the cable he sells. (No he does  
not have RG-122/U!)

He \*lists\* the currently much-sought 300 ohm ladder line, but when I checked with him lately he said that he has been out of stock for quite a while and the manufacturer has not seen fit to produce any.

Usual disclaimers, etc.

72/73,

Joe E., N2CX

From owner-qrp-1@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: "Michael A. Gipe" <mgipe@reliablemeters.com>  
Subject: [2554] Antenna modeling  
Message-ID: <199610221734.MAA09047@multi2.pic.net>

Anyone out there with experience with antenna modeling programs?

I have never used any of these programs and wonder what the advantages and limitations are of each.

Are any written as windows programs? Do they run with Win 95?

Mike K1MG

From owner-qrp-1@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: Ken Newman N2CQ <103464.1355@compuserve.com>  
Subject: [2542] ARCI Party Results  
Message-ID: <961022160008\_103464.1355\_IHI57-1@CompuServe.COM>

To All,

ARCI FALL QSO PARTY 1996

Call used: N2CQ  
Location: NJ

Entry Class: Single Op, All Band

Band	QSOs	Pts	QTH	DX
80	66	273	24	0
40	137	504	29	0

20	61	236	28	2
15	3	12	2	1
10	0	0	0	0
-----				
Total	267	1025	83	3
-----				
Score: 1025 x 86 x 7 = 617,050				
-----				

Claimed Score: 617,050

Power Output: 5

Club Participation: NJ QRP Club - QRPeanuts II

Equipment: TS-850S/AT (5W) 3 el Tribander Zepp  
Time: 16.5 Hours ARCI#: 7975

Unbelievable amount of activity on Saturday all day!  
Should have started right out of the chute.  
5 Watts and an adequate antenna allows CQs on this test but  
never could do this on Field Day.  
Thanks for the help from the QRP-Lers and the all the ARCI  
members (more than half the QS0s) to make it a great event.

Ken Newman

81 Holly Drive

Woodbury, NJ 08096

From owner-qrp-1@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: OJWA1YIA@aol.com  
Subject: [2577] ARCI SCORE  
Message-ID: <961022172526\_1079317492@emout03.mail.aol.com>

Call : WA1YIA  
Category: Single Op All Band  
Power: 5W

Exchange: 559 TX 5W

Op Time: 17:55

BAND	Qs	Pts	Mults
80	3	105	3
40	86	2317	34
20	145	4039	38
15	9	294	7
10	2	70	2
-----			
total	245	6825	84

score by NA LOGGING = 573,300

Team: TEXAS YAHOO'S

Comments:

Big time fun! Lots-o-noisy here in the Lone Star State. No room here for big gun antennas, just me and my butternut! Now up to 46 states for qrp was.

Thanks to all who participated. Sorry to those I could not hear. What's next?

cu-----oj

From owner-qrp-1@Lehigh.EDU Tue Oct 22 23:24:17 1996

From: Yin Lung Shih <ylshih@alumni.caltech.edu>

Subject: [2582] Cascade oscillation

Message-ID: <199610222338.QAA10723@alumnae.caltech.edu>

Just finished the Cascade and I've got a peculiar behavior.

The transmitter section tunes up fine with the 20 meter module. However, with the 75 meter module, the transmitter goes into nice oscillation. Has anyone else seen this? Is there a known fix before I start debugging?

Yin Shih, K06VY

From owner-qrp-1@Lehigh.EDU Tue Oct 22 23:24:17 1996

From: Marshall Emm <75230.1405@CompuServe.COM>

Subject: [2551] CQC Swap List

Message-ID: <961022170214\_75230.1405\_HHB59-1@CompuServe.COM>

The Colorado QRP Club's swap list has been updated. For an emailed copy of the current list, or to add, change, or delete items, write to:  
Dick Schneider, rschneid@ix.netcom.com.

You can also view the list on the club's web site, for which the url is:  
<http://ourworld.compuserve.com/homepages/mtech/cqc.htm>  
...and changes can be posted from there, too.

You do NOT have to be a member of CQC to offer items on the swap list.

73  
Marshall  
AA0XI

From owner-qrp-1@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: "WILLIAM R. COLBERT" <v31xe@dzn.com>  
Subject: [2570] Cutting Coax braid  
Message-ID: <326D24B7.5E8@dzn.com>

Two methods come to mind - both presented years past in various handbooks, magazine columns (Bill Orr, W6SAI, for one)so neither is original. One method as mentioned already is to use cuticle scissors or as the telephone people do - wire scissors. Another method, similar is to use a small pair of diagonal cutters, but this is sometimes very tedious. I have used my can opener on my knife to enlarge a hole in the braid, pull the center insulated section through and then cut the braid at the desired place (makes an easy way to form a coaxial braid pigtail). The final suggested way (also for installing PL-259 connectors)is to lightly solder the braid at the area of cutting and then use a small hack saw blade to cut thruough the tinned area. The tinned area is easily soldered to after installing PL-259 connectors and soldering thru the holes is required.

--

72/73 Ray Colbert, W5XE, SOWP-1064m  
also af852@rgfn.epcc.edu  
El Paso, Tx

From owner-qrp-1@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: bruce muscolino <w6toy@pop.erols.com>  
Subject: [2579] Decal Paper  
Message-ID: <199610222150.RAA02809@smtp2.erols.com>

I recently received a sample copy of FLASH magazine and found an ad in the back for "waterslide" decal paper. This is the same stuff they use to make decals for model kits. According to the vendor it works very well with laser printers and will also work with ink-jets if you spray a layer of "clear coat" over the image. The prices seemed reasonable so I ordered a few sheets. The sheets are 8.5 bx 11. I honestly don't remember the price but it was under \$10.00. The company is:

SCALE SPORTS  
PO Box 1485  
Sterling, VA 20167  
Phone (703) 318-1283  
FAX (703) 318-1981

If you're not impatient, stay tuned and I'll post a report!

73,  
Bruce -- W6TOY/3  
Still QRP, Really! (c)  
--  
Bruce -- W6TOY/3  
QRP, Really! (c)

From owner-qrp-1@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: adams@chuck.dallas.sgi.com (chuck adams)  
Subject: [2536] EMPS  
Message-ID: <199610221508.PAA02746@chuck.dallas.sgi.com>

Gang,

After you work Tim or after the session, if you can still keep the eyelids open, move down to 3.560MHz and see how 80m is doing. Hopefully the QRN will be quiet and we can hear each other.

: Chuck Adams (K5FO CP-60) WAS 40m/30m/20m=49/49/50  
: EMPS QS0s=2 STATES(w/c)=2/0 DX=0  
: MO TN

From owner-qrp-1@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: "Bradley S. Mitchell" <bmitchel@kodak.com>

Subject: [2527] FD 96  
Message-ID: <326D023D.2E0A@kodak.com>

Ok folks, fd 96 was a blast for sure!

I took pictures, but we operated from the  
same secret location we did in 1995,  
so not much new to show.

<http://qrp.cc.nd.edu/qrp-1/miscpics/wb8ygg/fd95/image08.jpg>

Our Happy Homebrewer Club  
AKA (Gary N2JGU, and myself Brad WB8YGG)

1A Battery ( 2 ops) We were miss classified,  
Should have been 1B battery.. Oh well,  
never the less, we did ok in the 1A category.  
Just above some club called North  
Texas QRP Club..

Next year hopefully we'll be back  
in the right 1b-battery category!

73 All, WB8YGG

From owner-qrp-1@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: aa7uf@juno.com (Gerald L Marsh)  
Subject: [2537] For Sale: HW-8 + Power supply  
Message-ID: <19961022.081217.4671.0.AA7UF@juno.com>

For sale: HW-8 80/40/20/15 meter CW QRP rig, with HWA-7-1 power supply  
(but without any manuals). \$120 plus shipping.

Please respond directly to: AA7UF@juno.com

From owner-qrp-1@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: jdenison@aisp.net (JOEL DENISON)  
Subject: [2564] fox  
Message-ID: <19961022182941591.AAA63@slip19.ts-f-merrill.caps.maine.edu>

where is the music? the north east can't dance!  
The FOX-TROT is must be only a rumor from texas and cal.  
We can dance the static crash and the QRN howell  
But we will not trot, without the FOX. It just an't right.



Due to recent rains the NE is maritime mobile in many towns. (19 inches)  
But we are still tuned for the FOX.  
So Texas, take care tonight. Your Fox doesn't stand a chance.  
The hounds up here are lean and mean and hungry tonight.

Keep ur nose (signal) out of Maine or suffer the fate of the last  
fox that thought we were kidding. We had him in the kettle within  
thrity seconds!

We don't want no Out-of-state foxes up here.  
foxes "from-away" are nuttin but trouble.

: -)     : -)     : -)     : -)

Reverse psychology worked last time : -) maybe again?

Bye now

God Bless

Joel

WA5CVM

Qrp ARCI #4066    NE-QRP #476    QRP-L #765

Joel Denison

81 High street

Horiz. Loop up 30ft    Inverted V up 33ft.

Farmington, Maine 04938

jdenison@aisp.net

QRP PLUS    5w    SSB & CW

From owner-qrp-1@Lehigh.EDU Tue Oct 22 23:24:17 1996

From: adams@chuck.dallas.sgi.com (chuck adams)

Subject: [2514] FOX CA vs TX Game

Message-ID: <199610221150.LAA02076@chuck.dallas.sgi.com>

October 22, 1996 Bottom of the Second CA-4 TX-3

: Chuck Adams (K5FO CP-60) WAS 40m/30m/20m=49/49/50

: EMPS QS0s=2 STATES(w/c)=2/0 DX=0

: MO TN

From owner-qrp-1@Lehigh.EDU Tue Oct 22 23:24:17 1996

From: Dick Schneider <74602.3317@CompuServe.COM>

Subject: [2574] Fox guns re-loaded

Message-ID: <961022205352\_74602.3317\_EHH99-1@CompuServe.COM>

All the big guns in Colorado have been field stripped, cleaned and re-loaded

for tonight's hunt for the elusive furry one.

72 Dick AB0CD..

CQC: #1 Field Day 1996 2A Battery

From owner-qrp-1@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: adams@chuck.dallas.sgi.com (chuck adams)  
Subject: [2535] Fox in TX  
Message-ID: <199610221500.PAA02687@chuck.dallas.sgi.com>

Gang,

I was ready and I was waiting. The gun was loaded, the battery charged, the rig warmed up, and the desk cleaned off.

The QRN was up due to thunderboomers, tornado watch, and just some ugly nasty stuff passing through TX. Snowing the panhandle and all. But not to be outdone by the WX I was going to try anyway.

I didn't bring up the fox file on the system at home and was thinking the 0100-0300 slot. Oh well, arrived an hour early. Looking at the scenery and saw a 3B8 in Africa and some other African stations. I knew the skip was long before we even got started.

Sure enough at 0200 here comes KF2PH. Also everyone else in the world was on 7.040MHz. Down here in the south we have XE SSB stations that must all have digital displays and they love even number KHz locations. Just about any time of the night we can work on our Spanish down here. Also some RTTY and other CW stations that have digital displays.

So for two hours I tried. Nick was up and down but never over 559 on the Explorer II. Did manage Ron, KU7Y, in Reno NV for a quick QSO. I'm certainly glad my fellow Texans managed to get through.

Looks like to me Jack, W5TFB, and Bob, N5ET, are the ones to beat. I know what their antenna systems are like. I still have to rank the antenna #1 item for QRPers. The receiver is important also but if you are using a dummy load you won't work anyone.

Look at N6ULU's consistant rankings and the only two time winner of the foxhunt. You can pay me later Stan. :-)

This years tallies are showing the VE3's are really doing well also. Must be that cold WX they are shipping down. We'll have the boys on the north 40 put up another strand of barbed wire, 'cuz that's all that is between us and the North Pole.

So for future reference, and Tim said that he would be below 7.040MHz I'd recommend that the foxes move off of 7.040MHz to reduce levels of QRM for the hunters. It didn't help me either when a local KW came on 3 KHz below me for a schedule. But if Nick could have heard me I could have still heard him with the Explorer II.

The CA crowd should do well tonight. The skip will be long and Tim is almost local and will probably not be heard in Dallas. But we will be there. If I know that I can't hear him I'll be down on 7.030MHz looking for AK. :-) Noticed on some of the web pages that on 30m and 40m AK is the toughest one to get. That is for anyone not on the west coast. I'll trade you one ME for one AK. :-)

FYI

: Chuck Adams (K5FO CP-60) WAS 40m/30m/20m=49/49/50  
: EMPS QS0s=2 STATES(w/c)=2/0 DX=0  
: MO TN

From owner-qrp-1@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: wa5whn@juno.com (Jay D Miller)  
Subject: [2549] Fox last night/SoCal  
Message-ID: <19961022.102421.4551.4.wa5whn@juno.com>

Fellow Hunters,

{This here, is what is called "Texas Yarn", or what You step in, out in a Bull pasture.}

After moving that storm over into Texas, I had heard N2VQK, AE4IC calling KFox2PH, on 7.039 MHz. Then, the pack seemed to move (no hint of the Fox, yet @ grid square DM65qd) up to 7.0394 MHz. Then, our SSB Friends, south of the border, had moved in. The notch & SCAF filtes were working fine. Heard WB5QYT give the Fox a call. Then, KU7Y (Ron, You owe me a S-meter) & N6ULU (it's a good thing that Ron had burned out the meter first). It was the Fox's response to N6ULU that I had heard. Darn, missed. Well, there's tonight.

On a serious note: Everyone in SoCal, in Orange or North San Diego Counties (Malibu to Carlsbad to Vista, California) OK ? I was monitoring

some of the Cal. HF nets in the vehicle this morning. I had noticed that some of the Slurry Bombers were gone, that are usually parked @ Kirtland AFB, this morning. Cactus Net was active this morning. Flooding in New England & Fires in SoCal. The rest of us are real lucky.

...Jay

From owner-qrp-l@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: kf2ph@juno.com (Nick Franco)  
Subject: [2512] FOX Results: 10/22/96 0200-0400 UTC  
Message-ID: <19961022.010557.9974.3.kf2ph@juno.com>

Compadres - -

Well that was an experience for sure. I don't think my ears will stop ringing for a week!  
I think I experienced every type of distraction there is: QRN, QRM, SSB, some digital, people tuning (and they didn't sound like QRP sigs), etc. There were times I thought I heard many signals way down in the noise but couldn't distinguish anything. A few times I started to hear someone I thought was calling me and then their signal blended into the QRO guy call CQ right on me. I even moved down to somewhere around 7.039 from 7.040, but I hope I didn't stiff anyone on the original freq. I announced I was going to QSY DWN 1. Well, what happened, happened. I had a blast and the two hours really flew by. Here's my results:

15 definite Q's - and a few bits and pieces:

1	N5ET 449	BOB	123
2	AA2PF	559 NY	DAVE 306
3	N2VPK	539 NY	MARK 376
4	VE3SP	559 ONT	RON 464
5	KE4YH	559	STEW 590
6	WA8CDU		413
7	W5TFB	349 TX	JACK 282
8	N9DD 559	IN TOM	329
9	KK5RO	TX VERNON	324
10	W8DN	MIKE	575
11	AB5UA	559 OK	CLIF 478
12	N0IEM	qrm and qrn	killed this one for me - sorry
13	WJ4P 559	SC RANDY	296
14	N6ULU	379	STAN 66
15	AB0CD	229 CO	DICK ?

Well, not too much to speak of, but I did my best. Considering I haven't

worked any Foxes this year so far, I'm glad I heard some of you :-). I used my NW-40 at 5 watts and the Butternut HF6V vertical mounted on my shed wall. I tried every filter in the rig and still had a terrible time with the noise. Sometimes I spent, what seemed like a long time, just listening for hopeful hunters that never materialized. This is tough operating! I salute all the Foxes that have done this before and will do well this year. I think I have the lowest Fox score, but I did what I could. Sorry if I miscopied you info. You can send any correction to me at work at [kf2ph@bnl.gov](mailto:kf2ph@bnl.gov) and I'll fix the list for Chuck. Thanks to you all for a fun night.

72

Nick - KF2PH

Lucky ? QRP-L # 13

From owner-qrp-l@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: "Ahrens Tim" <[tahrens@devmail.sps.mot.com](mailto:tahrens@devmail.sps.mot.com)>  
Subject: [2524] FOX TONIGHT..... TEXAS  
Message-ID: <9609228460.AA846003479@devmail.sps.mot.com>

Howdy from Texas pardners.... well, it's time to tweak up those rusty finals and prune the dipoles.. Because its Fox time!

WHEN?	Tonight, TUESDAY!
WHAT TIME?	8-10pm CDST (0100-0300utc)

I'm getting the Sierra and GQ-40 ready....I'm sniffing Murphy around here.... Will be all battery powered.

That cold front the California guys sent came through a day early! haha... tonight the bands will be quiet, except for the sweet strains of QRP code!

Speaking of foxes... gosh, N2VPK sure was strong here last night... but only a faint glimmer from Nick.

Tonight the Fox will be handing out Qs for 2 solid hours.. get one!

Thanks, & cu tonite!

Tim WA5VQK

OH yeah, the frequency.... Let's try a tad below 040...  
probably between 37 & 40... but if it's anything like  
last night (SSB on 38), we'll probably go above 40.

bcc: k5fo

hey chuck, the fedx guy just came & delivered the CA filter!  
Thanks!! I'll check it out tonite. heh  
ehe :-}

From owner-qrp-1@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: Dick Schneider <74602.3317@CompuServe.COM>  
Subject: [2510] fox!  
Message-ID: <961022054005\_74602.3317\_EHH70-1@CompuServe.COM>

Got the furry little guy, just before the buzzer!

Was running errands. Pulled onto some unused asphalt to work him when his  
signal went up.

Once again, the IC706 and the Hustler saves the day.

Got him as NF2PH 239 NY NICK NR 13

The little fella was hiding deep in the noise for most of the evening out  
here in Colorado, but he must have peeked out a little too far just before  
0400. His signal came up louder than he was all night. I had to swing off a  
busy road to snag him!

72 Dick AB0CD..

From owner-qrp-1@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: rhigh@primenet.com (Roger Hightower)  
Subject: [2597] FOX: At last! Nr. two of 8  
Message-ID: <199610230302.UAA03049@primenet.com>

Finally got Fox Nr. Two....heard Tim in amongst the BC and Mexican interference at 7038 just 6 minutes before the end of his shift. Was really getting concerned abt this fox hunt stuff. I have been skunked the last six times, and starting to get paranoied about antennas, feedlines, receivers, etc. Guess there was just too much crap from Down South to hear the others...it's a real mess here. Mebbe the HW-9 rcvr is just too good, :-)

Feeling better now. Got to get Neil tmrw for a 5-pointer, then it's on to the rest of them.

Thanks, Tim....enjoyed the contact.

72/73 de Roger AA7QY

NorCal 1099 CoQRP 176 QRP-L 62 G-QRP 9081 ARCI 8946 NE-QRP 383

From owner-qrp-1@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: "Bob Tellefsen-CNSE97" <Bob\_Tellefsen-CNSE97@email.mot.com>  
Subject: [2576] FOX: KF2PH  
Message-ID: <M1111431.001.p3gz0.1.961022205546Z.CC-MAIL\*/OU=LMPCC10/OU=ILBE/PRMD=MOT/ADMD=MOT/C=US/@MHS>

Pesky critter's been raiding my 40m barnyard, and got clean away again. I know what a FOX looks like, I know what a FOX sounds like, I know I want his hide real bad, but darn, he sure got past me this time. My old propagation yard light is getting pretty dim these days. I'm sure that's how he got away with it. Had some slicker out here just last week talking about these new-fangled solar-power night lights. Got me thinking. Wonder if some solar panels would perk up that old propagation yard light?

Sure appreciate your efforts in staying up late to give us left coasters a crack at you, Nick. Only heard one signal from east of CO last night, a W5 that sounded kind of lost, like he was wondering where everyone was.

Oh, well. Better luck (and propagation) next time.

72, Bob N6WG

From owner-qrp-1@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: "Bob Tellefsen-CNSE97" <Bob\_Tellefsen-CNSE97@email.mot.com>  
Subject: [2575] FOX: N/T Style  
Message-ID: <M1111432.002.p3gz1.1.961022205547Z.CC-MAIL\*/OU=LMPCC10/OU=ILBE/  
PRMD=MOT/ADMD=MOT/C=US/@MHS>

Nice job last night, Tim. Was very happy to have worked you, especially in light (or lack of) not hearing, seeing, smelling or catching the right coast variety of fox afterwards.

Keep up the good work. Look forward to hearing you again, FOX or just QSO.  
72, Bob N6WG

From owner-qrp-1@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: Roy Boggs <rboggs@pcc-uky.campus.mci.net>  
Subject: [2595] FOX: WA5VQK..whizzer op!!  
Message-ID: <2.2.32.19961023023515.0068d510@pcc-uky.campus.mci.net>

Fellow Fox Hunters,

Tim had to pull me out of super strong QRM on the EXACT freq that he was operating on, and boy was it tuff! Took 2 tries but bingo. Only way I could hear Tim was because ONE of the QRO guys was weaker and I jumped in during his turn in the QSO; actually couldn't hear Tim's QRP-L # 'cause right at that moment, the LOUD QRO station had his turn. Took some good op skills on Tim's part to do it and I want to congratulate him for such a fantastic job. Way down in the noise it sounded like a bunch of bees, so I suppose he will get quite a log tonite. Great fun!! Thanks Tim.

P.S. at 01:00Z he was too weak to hear clearly; by 02:34 he was super strong at solid S9 on my Kenwood TS850.

de KE4KDT  
Prestonsburg, KY

From owner-qrp-1@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: "William C. Robbins" <billrobb@net-link.net>  
Subject: [2521] FS: HF/QRP Rig  
Message-ID: <199610221310.JAA06718@serv01.net-link.net>



I have for sale a Kenwood TS-50 HF rig and a Kenwood AT-50 External Antenna Tuner. The Kenwood can be turned to low power (5 watts) from the menu and used for qrp. These are from an estate and are like new. I will split them or sell seperately. TS-50 \$700.....AT-50 \$225. Or will consider trades for qrp rigs or whatever.

Bill

William C. Robbins

Heathkit Collector

billrobb@serv01.net-link.net

From owner-qrp-1@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: amarriot@direct.ca (Albert Daniel Marriott)  
Subject: [2592] FS: OHR 400 and WM-1  
Message-ID: <960ct22.185539-0700pdt.270387-6096+358@aphex.direct.ca>

For sale OHR 400 CW transceiver with built in OHR keyer, and OHR WM-1 swr/watt meter. Both units about 1 year old. The OHR 400 aligned by OHR.

Both in excellent physical and working condition; for \$300 US (I will not separate them).

Buyer pays for shipping.

Dan VE7CTN  
amarriot@direct.ca

From owner-qrp-1@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: Brian Kassel <bkassel@enet.net>  
Subject: [2557] FYBO TTF Preparation, AZ Style  
Message-ID: <326D6C32.799B@enet.net>

Jay D Miller (WA5WHN) wrote:

> Fellow Fox Hunters,

> BTW, for the Arizona "FYBO QRP AField", scheduled for Feb. 22, 1997, I am  
> taking the Ten-Tec Scout (5 watts), it had drifted less than 20 Hz, in an  
> honest to goodness real blizzard, in less than 20 minutes from 47 deg. to  
> 28 deg. F. I am ready, and I still thank the inventors of Gortex. Oh,  
> keyer paddles (re-gap Your' Points) & LCD displays don't like cold. I was

> wearing Nomex gloves (Surplus USAF or USN Pilot gloves).

Jay:

I have begun preparing as well. Got my sunglasses, all of my little umbrellas for my adult consumables lined up in a row, and my special "QRP is Not for Sissies" cap. Think I'll only need sunblock # 8 or so, don't want to lose my tan you see. I have constructed my special operating table that allows me to fully recline while still being able to work the CW Keyboard, the laptop, the DSP filter, antenna tuner, and the adult beverage dispenser. I have the beach umbrella ready to go, don't want that temperature to get much above 70 degrees. The rig might drift, and cause me to have to retune, requiring some actual physical movement...

> Well, the weather outside is frightful,...Well here it's quite delightful  
When you freeze your B--- off let me know...  
Let it snow, let it snow, let it snow  
;>)

--

```
*****
* Brian D. Kassel W5VBO - QRP NERD 10 - ScQRPion #17 *
* QRP-L #404 - ARCI #3623 *
*****
```

From owner-qrp-l@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: "Arjen Raateland, SYKE/YV, puh. 09 4030 0457" <Arjen.Raateland@vyh.fi>  
Subject: [2511] HB: PA's, V+ and SWR  
Message-ID: <01IAXV2F9NZC8Y6KTD@vyh21.vyh.fi>

Duane wrote:

For your information folks the 4013 is no longer produced. I learned that it was not very tolerant to high SWRs either. Anyways I replaced mine with  
--

Question to the experts:

Earlier the Vceo of the 4013 was quoted as 30 Volt, which is a tad low for a PA at 12 V nominal, I think. What do we know about the connection of power output (at normal load, supply voltage and breakdown at high SWR? I suppose the drive level might go into the equation, too.

In particular: If a PA transistor with a Vceo of 30 Volt runs 5 Watt out instead of 2 Watt, would it be more likely to break down if the

SWR gets high? Supply voltage is assumed constant at 13.8 Volts.

73, Arjen, OH2ZAZ

Arjen Raateland  
Suomen Ympäristökeskus / YV  
--... ..- -... - - - - - - - - - - - - - - -  
Finnish Environment Institute, Helsinki, Finland  
SAS Support  
EMAIL: Arjen.Raateland@vyh.fi  
tel. +358 9 4030 0457  
fax +358 9 4030 0490  
..-.. -.-

From owner-qrp-1@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: jeffa@ix.netcom.com (Jeff Anderson)  
Subject: [2519] Help! Need Heathkit HP-20 info  
Message-ID: <199610221243.FAA02929@dfw-ix4.ix.netcom.com>

I recently picked up a Heathkit HP-20 power supply, and in looking it over I think it's been modified by a previous owner. On the chassis is mounted both a standard power transformer and also a filament transformer. I believe that in place of this separate filament transformer there should instead be a choke for one of the power-supply voltages.

Unfortunately, the seller did not include a schematic so I can't verify it. Does anyone know if this supply uses a choke for power-supply filtering and what its value is? I'd like to get this back to its original state.

Thanks!

- Jeff, WA6AHL

From owner-qrp-1@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: Roger Hightower <rhight@primenet.com>  
Subject: [2539] KA9FOX Web Page URL  
Message-ID: <326CE7B4.7217@primenet.com>

The URL for the KA9FOX page is: <http://www.qth.com/ka9fox/>

72/73 de Roger AA7QY

--

NorCal 1099    CoQRP 176    QRP-L 62    G-QRP 9081    ARCI 8946    NE-QRP 383

From owner-qrp-l@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: Doug Hendricks <ki6ds@dpol.k12.ca.us>  
Subject: [2538] KI6DS Away From Home  
Message-ID: <1.5.4.16.19961022074116.47bfd7ea@telis.org>

My father-in-law died this morning from Alzheimer's disease. It was a blessing as he was comatose the past 3 weeks and the quality of life was not there. I will leave today to fly to Kansas City to be with my wife and take care of the arrangements. I will not return until late Sunday at the earliest so may not answer email promptly.

Thank you for your understanding. 72, Doug, KI6DS

From owner-qrp-l@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: "W. Daniel, 9V1ZV" <daniel@pandora.lugs.org.sg>  
Subject: [2515] More transistor questions!  
Message-ID: <326caad7.pandora@pandora.lugs.org.sg>

Hi there,

I'm back, as you all knew I would be. Here's a few more questions relating to transistors:-

1. In W1FB's QRP Notebook on page 105 Doug writes:-

".... If a transistor is rated at 10 watts maximum PD .... I like to stay on the safe side of things by restricting the dc input to 0.75 or less of the PD rating. Therefore, in the case of a 10-W transistor I would restrict the dc input power to no more than 7.5W. Transistor efficiency being what it is in an RF amplifier, we would expect to obtain approximately 3.5W of RF power output power under this condition."

I can accept this BUT, I also see that PD is related to transistor casing. Most of the TO-220 type casing transistors, for example, have a PD of 10 watts. However many of these transistors are rated for different power outputs. For example, in my Data Book:-

MRF475	Ic (max) = 4.0A	PD = 10W
MRF476	Ic (max) = 1.0A	PD = 10W

However, in R.F.Parts' catalog and in the ARRL Handbook:-

MRF475     Pout = 12W  
MRF476     Pout = 3W

Now, according to W1FB's book, the MRF475 should NOT be used for 12W output given it's PD rating of 10W. How come it is rated, then, as a 12W output device? Am I missing something here? Are these transistors SWR-protected ones? BETs?

It seems to me then, that the PD is only a very rough guide to RF transistor selection. What then is a better guide? Ic (max)? Are the Pout specified for heatsinked configurations?

2. How do I find out the base impedance of a transistor?

Okay, so much for now .... maybe I will think up some more later.

73 de 9V1ZV Daniel

--

```
*-----+-----+
| Daniel Wee | daniel@pandora.lugs.org.sg      |
| 9V1ZV      | danwee@singnet.com.sg              |
| QRP-L #667 | daniel.wee@f516.n600.z6.fidonet.org |
+-----+-----+
```

From owner-qrp-1@Lehigh.EDU Tue Oct 22 23:24:17 1996

From: SMohan@tele-tv.com (Sam Mohan)

Subject: [2565] Need schematic for AD811AN based 1 Watt QRP Txr

Message-ID: <26D14F70.1755@tele-tv.com>

Couple of days ago there was a posting here reporting an EDN Magazine article about "AD811AN based 1 Watt QRP Txr". I am not able to get hold of this magazine. I was wondering if someone would post the Web page URL or BBS# of EDN here. Or a quick ascii rendering of the circuit itself would be wonderful!!

Thanks.

73 Sam N3UTM

SMohan@Tele-TV.com

From owner-qrp-1@Lehigh.EDU Tue Oct 22 23:24:17 1996

From: KFGlynn@aol.com  
Subject: [2529] No Fox in NYC  
Message-ID: <961022103045\_1314073310@emout06.mail.aol.com>

Hi gang,

O'fer on the fox thus far. I didn't hear Nick, but did hear alot of SSB last night. I worked into AR, FL and TN on 40M, but not to Long Island.  
Hopefully will hear Tim tonight.

72 Kevin KB2TE0

From owner-qrp-l@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: nskousen@scientech.com (Niel Skousen)  
Subject: [2509] Novice Fox - Wed.  
Message-ID: <199610220507.XAA07101@eaglerock.if.scientech.com>

My first turn in the frying pan.....

==== Novice/Tech+ Fox =====

WA7SSA Niel Skousen  
Wed. 10.23.96 8:00-10:00pm MDT  
Thur 10.24.96 0200-0400 UTC  
FREQ 7.112 +/-  
RIG FT-757 @ 3.5w (may try NorCal 40 2nd hr... :-)  
ANT Inv.V @ 28 ft, legs E-W  
QTH Idaho Falls, ID  
QRP-L #119

\* Standard N/T code speed warning ...  
\* Please advise if this time slot is too late ...  
\* Patience is a virtue (especially for you 40wpm+ CW ops on N/T Fox nite..)

TNX es GL  
73  
Niel

From owner-qrp-l@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: Mike Duke <gmduke@oscar.TECLink.Net>  
Subject: [2588] OOPS! 6 meter addresses again, please?

Message-ID: <Pine.GS0.3.95.961022193345.21526E-100000@oscar.teclink.net>

Several qrpers replied to my original request with two addresses, one for 6 meters, and another for vhf weak signal work. Old butter-fingers, cuppled with a provider crash, lost them.

Please send them again so that I can write them down while they're on the screen the first time.

72

Mike Duke, WB5ADC, Jackson, MS

From owner-qrp-1@Lehigh.EDU Tue Oct 22 23:24:17 1996

From: "Thomas J. Whalen" <whalen@swcp.com>

Subject: [2530] Out foxed!

Message-ID: <Pine.SUN.3.91.961022082950.1040A-100000@kitsune.swcp.com>

Listened for Nick here in NM for an hour and not even a scent! Must have been the snow and the cold wx that we got the other day. Did any other NM station here the NY fox? Texas fox should be a snap tonight! The only problem is that I think I have to work. Oh well, it's sure fun when I can get on and try to snare that critter! 72 Tom WB5QYT

From owner-qrp-1@Lehigh.EDU Tue Oct 22 23:24:17 1996

From: "Phil, AC6LS" <ac6ls@amsat.org>

Subject: [2513] qrp/m @ pacificon

Message-ID: <326C7E1B.10DC@amsat.org>

On sunday morn. I went out to the swap-meet and looked around. I picked up an ICOM 202 (2m XTal rig with 3w pep, telescoping ant and mic, CW/SSB)

Walking from the parking lot back to the hotel I worked a local at Pacificon for a radio check, fb everything worked ok. THEN, a guy down in Gilroy, CA called to tell me I was 39!!! this is about 80mi south of Concord ! not bad for ~3w from a handheld with a vertical.

QRP never fails to amaze me, this is one of the Major attractions that keeps me interested in it.

side note: I am almost finished with WAS cw. I just got 2 more cards in the mail today, now all I need is Montana and North Dakota.

ps Chuck- ya know, I have a few extra 40m KL7 qrp qsl's, maybe we could work out a trade or sumtin' ? ask any Californian, KL7's and JA's are a dime a dozen...:-)

72 de Phil

From owner-qrp-1@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: CKrelic <CKrelic@worldnet.att.net>  
Subject: [2544] Question  
Message-ID: <326CF350.1B49@worldnet.att.net>

Does anyone know if or when there will be another group buy on the OHR kits?

I am ready to build another OHR400!

Thanks Curt/Ka3ivb

From owner-qrp-1@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: Patrick Taber <ptaber@logiccraft.com>  
Subject: [2567] R-7000 antenna question  
Message-ID: <1.5.4.32.19961022185419.0091211c@freebird>

Since I use this antenna for QRP, I thought I could shoehorn it in as QRP-related....

Two questions: one about bandwidth and one about tuners...

I have a question about bandwidth on a trap half-wave vertical. I have an R-7000 that I just put up. It's new, I built it to specs I have it on a short tower section bracketed to my deck. On the deck side it's about 7 feet up and 12 feet from the house, on the other side it's 19 feet up. 10M and 12M 2:1 SWR points are "wicked wide" -- each much wider than the band they cover. But the other band sections are much shorter than spec. I'm getting about 290KHz on 15 (spec'd as 450) 112KHz on 20M, 61KHz on 30M and 69KHz on 40M. (I didn't write down the claimed coverage on the other bands, but all of them are coming up very short.)  
The minimum SWR points are close to where they should be, but the bandwidths are 'way off. What am I seeing here? An environmental effect because it's too close to the house? Funky assembly?

Also, does anyone know if it's OK to use a tuner on an R-7000? It's got that



little matchbox built onto it and it's not clear to me if I could blow it to bits by running a tuner into it.

>>>==>PStJTT (KC1TD)

From owner-qrp-1@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: lve1@inel.gov (Larry V East)  
Subject: [2580] RCA 4013  
Message-ID: <2.2.16.19961022225510.279714f6@eloi>

>From a recent post:

>Duane wrote:

>For your information folks the 4013 is no longer produced. I learned that  
>it was not very tolerant to high SWRs either. Anyways I replaced mine with  
>

Did someone FINALLY find the REAL specs on this thing? If so, could someone PLEASE forward a copy to me? (Been away from the list for the past 10 days).

Thanks and 72, Larry W1HUE/7  
lve1@inel.gov

From owner-qrp-1@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: Marshall Emm <75230.1405@CompuServe.COM>  
Subject: [2590] Repost of: CQC Swap List  
Message-ID: <961023005104\_75230.1405\_HHB64-5@CompuServe.COM>

AB0CD's email address has been verified and  
the url for the web site has been corrected (missing slash added)

The Colorado QRP Club's swap list has been updated. For an emailed copy of the current list, or to add, change, or delete items, write to:  
Dick Schneider (AB0CD), rschneid@ix.netcom.com.

You can also view the list on the club's web site, for which the url is:  
<http://ourworld.compuserve.com/homepages/mtech/cqc.htm>  
...and changes can be posted from there, too.

You do NOT have to be a member of CQC to offer items on the swap list.

73

Marshall  
AA0XI

From owner-qrp-1@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: jhunter1@juno.com (James K. Hunter)  
Subject: [2555] subscribe  
Message-ID: <19961022.111904.3430.0.jhunter1@juno.com>

From owner-qrp-1@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: adams@chuck.dallas.sgi.com (chuck adams)  
Subject: [2531] Surfing and PostScript  
Message-ID: <199610221433.0AA02556@chuck.dallas.sgi.com>

Gang,

For those of you who don't do much email and  
prefer surfing.

<http://www.rhichome.bnl.gov/People/franco/hampage.html>

This is from KF2PH's site. On this page there is a  
link to Pixie2, which is a copy of the PostScript  
schematic that I did after Dayton some time back.

Netscape has a PostScript reader. How many other  
surfing programs can do this?

If this is available to a majority of the group,  
then I can solve a bunch of problems related to  
the distribution of technical information and  
discussions thereof. ASCII diagrams don't get it  
done and .gif and .mpeg and other graphical formats  
have resolution problems. I love PostScript and HPGL  
files as they are device independent. You don't have  
to worry about screen and device resolution.

Send me email. Film at 11.

dit dit

: Chuck Adams (K5FO CP-60) WAS 40m/30m/20m=49/49/50  
: EMPS QS0s=2 STATES(w/c)=2/0 DX=0  
: MO TN

From owner-qrp-l@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: jdenison@aisp.net (JOEL DENISON)  
Subject: [2566] test  
Message-ID: <19961022184442076.AAA82@slip19.ts-f-merrill.caps.maine.edu>

Seem to be having troubles getting mail on the list.

Dis bee a test, disregard. thanks

Bye now  
God Bless  
Joel

WA5CVM	Qrp ARCI #4066	NE-QRP #476	QRP-L #765
Joel Denison			
81 High street	Horiz. Loop up 30ft	Inverted V up 33ft.	
Farmington, Maine 04938			
jdenison@aisp.net	QRP PLUS 5w	SSB & CW	

From owner-qrp-l@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: John Dorson K2JHU Real Estate Consultant <jdorson@bbs.mpcs.com>  
Subject: [2552] the mic is gone  
Message-ID: <199610221706.NAA29157@bbs.mpcs.com>

thanks for all the responses. the mic went to a fellow who is giving a rig to a will-be-ham and needed the mic for a complete rig...

John Dorson Real Estate Consultant in Brevard County Florida  
E-Mail To: jdorson@bbs.mpcs.com

```
| Trying for WAS - AL,AK,AZ,AR,CA,CO,CT,FL,GA,IL,IA,KS,KY,LA,ME,MD,MA|
| MI,MN,MT,NH,NJ,NY,NC,ND,OH,OK,OR,PA,RI,TX,VT,VA,WA|
| WI |
|-----|
```

K2JHU only QRP... CQC #351, GQRP # 9092, QRP-L #672

From owner-qrp-1@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: "W. Daniel, 9V1ZV" <daniel@pandora.lugs.org.sg>  
Subject: [2516] Transistor question  
Message-ID: <326ca219.pandora@pandora.lugs.org.sg>

Hi there,

Okay ... okay, you all know it already. That's right, another question  
(sorry I can't help it... ;-))

I am trying to understand a few things here:-

1. How does power gain relate to  $F_t$  and  $h_{FE}$  of a transistor? When I look at the specs, I see some devices which have pretty low  $h_{FE}$  but high power gain at specific frequencies, for example. Others have good  $F_t$  specs but seems to have poor power gain. Various other combinations exist which leads one to be confused about the relationship between the three parameters. How is this so? I thought perhaps higher  $F_t$  = higher  $h_{FE}$  = higher power gain but this is apparently not the case.
2. How do we determine the optimal input power for a transistor? For example, specs here and there show that for a 3W output on an MRF476, I need to feed it 0.1W input. However, on another device, such as the MRF477 which is specified for 1.2W in and 40W out, is it not possible to simply replace the MRF476 with the 477 (pinouts notwithstanding)? Both sport a 15dB power gain so why can't I simply use the 477 in place of a 476?
3. Why are some RF transistors specified for work at specific voltages? Are they more efficient at these voltages? Will efficiency go down if I use it at lower voltages? For example, the 2N3553 is rated for 2.5W output but has a note in R.F.Parts' catalog that this is at 28V. What does this mean?
4. This concerns driver transistors. Does anyone have the specs of the 2N5109, 2N3553 and the 2N3904 in a comparable format, especially specifying the power output and power gain at RF? For example, the MRF476 is rated for 3W out with 0.1W in for a 15dB power gain at 30MHz. So how do I rate the above 3 transistors? My main concern is to find out which of the three is hotter as a driver.

I have more questions but these will do for now. I'd appreciate if someone could answer these, technically if possible. Thanks.

73 de 9V1ZV Daniel

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\*-----+-----+  
| Daniel Wee | daniel@pandora.lugs.org.sg |

| 9V1ZV | danwee@singnet.com.sg |  
| QRP-L #667 | daniel.wee@f516.n600.z6.fidonet.org |  
+-----+

From owner-qrp-l@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: "WILLIAM R. COLBERT" <v31xe@dzn.com>  
Subject: [2568] TS130  
Message-ID: <326D22C2.16BC@dzn.com>

Roy, I used to have a TS130S and traded it a couple of years ago to a new ham (been regretting it ever since.) The rig is low current draw on receive and on qrp transmit levels, with the front panel carrier level control, it will go to below the 1 watt level. If used on SSB, has good audio, and can be made to reduce down on ssb with the ALC/battery system. I think it was one of the best radios ever made by Kenwood - bar none. Some one at the El Paso hamfest this past weekend had a 130 with the VF0130 and other extras for \$450. If you can pick that one up, I would think you will have no regrets. Good Luck with the Kenwood.

--

72/73 Ray Colbert, W5XE, SOWP-1064m  
also af852@rgfn.epcc.edu  
El Paso, Tx

From owner-qrp-l@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: Bob Hightower <ki7mn@dancris.com>  
Subject: [2593] Tues Fox  
Message-ID: <199610230212.TAA12704@dancris.com>

Wow! I heard the Fox (Tim WA5VQK) at abt 0115, and as I reached for the key, the whole world beat me to it. What a pile-up. I had the gain up a tad too much, and my xyl heard it through my headset from across the room. Well, to heck with that, so I jerked them off.

Heard him again abt 0138 and gave him a 2x call. He came back, and I got part of his exchange. Gave him my end when several others decided to call him, so I'm not sure he got it all. I did hear him ?, but sent the whole thing again, as I didn't know what he didn't get. Hope he got enough, but I think I got a handfull of fur this time. Would have been nice to have completed the exchange before the others jumped on him.

73,

Bob, KI7MN QRP-L #271, NorCal #1228, CQC #274, QRP ARCI #8918, not in any

order of importance.

From owner-qrp-1@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: wdzeares@rockdal.aud.alcatel.com (W. Dennis Zeares)  
Subject: [2517] TX 2 vs CA 1 - Mon FOX  
Message-ID: <9610221200.AA11315@aud.alcatel.com>

looks like TX had 2 and CA had 1 with the  
Long Island Fox, kf2ph...  
72,dennis k3ets, dallas

From owner-qrp-1@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: KFGlynn@aol.com  
Subject: [2532] Web address for KA9FOX?  
Message-ID: <961022103528\_338726546@emout04.mail.aol.com>

Hi gang,

Does anyone know the web address for KA9FOX?

Tnx for info.

72 Kevin KB2TE0

From owner-qrp-1@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: JACKS118@aol.com  
Subject: [2581] Web Page for KB9LEB  
Message-ID: <961022193648\_1514703501@emout17.mail.aol.com>

Hello. My web page for thoes that don't know is...

<http://members.aol.com/jacks118/kb9leb.html>

Please comment on it so I can improve the page.

TNX and 73 de KB9LEB

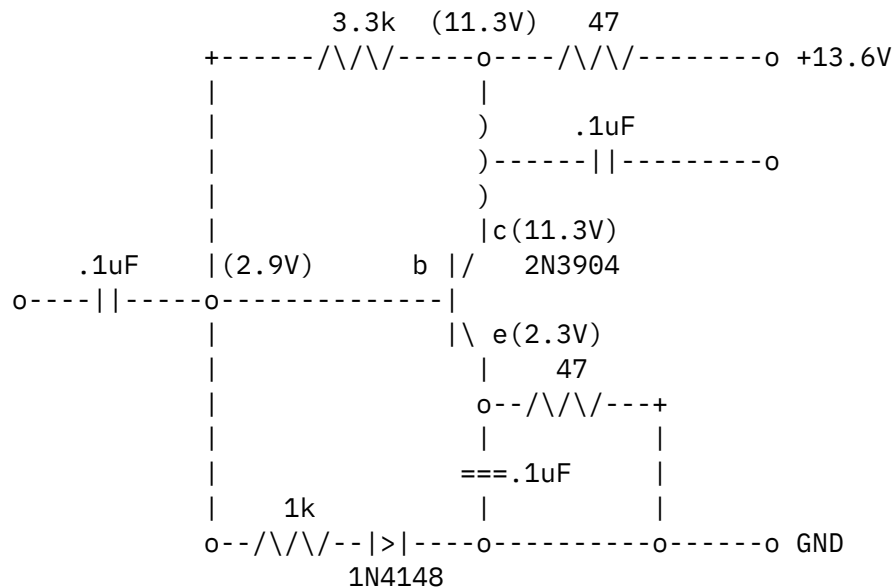
From owner-qrp-1@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: "W. Daniel, 9V1ZV" <daniel@pandora.lugs.org.sg>

Subject: [2546] Yet more transistor Qs ... matching  
 Message-ID: <326cf488.pandora@pandora.lugs.org.sg>

Hi,

Okay, I've been working on some of the answers I got and been reading a whole lot. If anyone has any objections to all my questions or is getting tired of this, just drop me an e-mail and I will keep this private. On the other hand if you are finding this as educational as I am then great! Maybe ask some questions too :-)

Okay, basically I am looking at the following circuit right now:-



1. 2N3904  $f_T = 300\text{MHz}$ ,  $f_o = 14\text{MHz}$ ,  $B(\text{ac})$  or Beta AC =  $f_T/f_o = 21$
2. Bracketed voltages are actually measured values with no AC signal present.
3. This circuit is being fed by a 50 ohm terminated filter. Input signal is set for 0.5V p-p.
4. Output feeds the base of an MRF476 with a 100 ohm to ground.

Calculations

-----

Assuming the measured voltages to be correct then:-

$$I_e = 2.3V / 47\text{ohms} = 49\text{mA}$$

Then, input impedance is given by:-

$$\begin{aligned} R_{in} &= 25 * B(ac) / I_e \\ &= 25 * 21 / 49 = 10.7 \text{ ohms} \end{aligned}$$

\* Note:  $I_e$  is in mA, see example in Solid State Design by Hayward, pg.20  
I don't know if this is correct. If not, then  $R_{in}$  would be 10.7 kohms.

At this point, if I am correct that the input impedance is 10.7 ohms, then the filter output to the amplifier input must be seeing an impedance mismatch because the filter expects a 50 ohm termination. In practice, when I look at the filter output on a scope with the amplifier powered down, I see a perfect sine wave. With the amplifier powered up, the sine wave becomes severely distorted. This may be an indication of the mismatch? Maybe. Comments?

Anyway, to continue:-

Since amplifier is driven by a 0.5V peak-peak signal, then base current:-

$$\begin{aligned} I_b &= E_{in} / R_{in} \\ &= 0.5V / 10.7\text{ohms} = 47\text{mA} ??? \end{aligned}$$

This seems a little high! How can this be since  $I_e = 49\text{mA}$ ? and  $I_e = I_b + I_c$  unless  $I_c = 0$ . But since  $V_b = 2.9V$  the transistor is forward biased so  $I_c$  cannot be 0! Something is way wrong here.

In Solid State Design, the example given has an emitter resistor of 500 ohms and an emitter voltage of 3.3V. Thus the  $I_e = 3.3 / 500 = 6.6\text{mA}$ . Hayward then goes on to calculate  $R_{in} = 25 * B / I_e$  where  $B = 20$  and arrives at  $R_{in} = 75 \text{ ohms}$ . This can only be if  $I_e$  was in miliamperes. Otherwise he would have arrived at  $R_{in}$  of 75 kiloohms.

Collector signal current is:-

$$\begin{aligned} I_c &= B(ac) * I_b \\ &= 21 * 47\text{mA} = 0.99A !!!! \end{aligned}$$

This cannot possibly be, since  $I_c \text{ approx} = I_e = 49\text{mA}$ . This means that the amplifier must be clipping. This is not the case however, when I look into the scope. No clipping is taking place.



Can someone correct me here?

Okay, assume for a moment  $R_{in} = 10.7 \text{ kohms}$  and not  $10.7 \text{ ohms}$ . Then:-

$$I_b = 0.5 / 10700 = 0.047\text{mA}$$

and

$$I_c = 21 * I_b = 1 \text{ mA (approx)}$$

This seems a little low. I must be off the mark somewhere.

I'd appreciate it if someone could point out where I have gone wrong in my calculations. Thanks.

73 de 9V1ZV Daniel

--

```
*-----+-----+
| Daniel Wee | daniel@pandora.lugs.org.sg      |
| 9V1ZV      | danwee@singnet.com.sg                    |
| QRP-L #667 | daniel.wee@f516.n600.z6.fidonet.org |
+-----+-----+
```

From owner-qrp-1@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: "Floyd Soo, KF8AT" <hires@rust.net>  
Subject: [2571] [Fwd: Re: Cutting coax braid]  
Message-ID: <326D43C1.4F4@rust.net>

This is a multi-part message in MIME format.

-----27256D851682  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Stew Whitehouse wrote:

>

> Hi Bill,

> One way to neatly trim the braid on coax is to tin the braid

> (be careful and don't melt the foam) and then score the

> tinned braid, where you want to cut it, with a pocket knife.

> Then, using pliers, break the braid where it is scored.

> I find that two pairs of pliers and a rocking motion will

> usually do the trick. I think I got this idea from a Hints and

> Kinks column in QST back in the sixties. I have installed

> a lot of PL-259s on RG-8 and RG-213 using this technique.

>

> Hope this helps you.  
> 72/3 Stew ke4yh  
> Dunedin, Florida

A variation on this technique from the 60s is to use a small tubing cutter like the "Imp". After tinning the area to be cut, carefully use the tubing cutter to cut a nice straight line around the entire circumference. This technique was in Bill Orr's "Wire Antenna" book.

73,  
Floyd Soo, KF8AT

-----27256D851682  
Content-Type: message/rfc822  
Content-Transfer-Encoding: 7bit  
Content-Disposition: inline

Received: from fidoii.CC.Lehigh.EDU (fidoii.CC.Lehigh.EDU [128.180.1.4])  
by Fe3.rust.net (8.8.2/8.8.0) with ESMTP id OAA05118  
for <hires@rust.net>; Tue, 22 Oct 1996 14:38:01 -0400 (EDT)  
Received: from Lehigh.EDU ([127.0.0.1]) by fidoii.cc.lehigh.edu with SMTP id  
<35155-33986>; Tue, 22 Oct 1996 14:36:38 -0400  
Received: from nss2.CC.Lehigh.EDU ([128.180.1.26]) by fidoii.cc.lehigh.edu with  
ESMTP id <34837-33986>; Tue, 22 Oct 1996 14:29:46 -0400  
Received: from hil-img-1.compuserve.com (hil-img-1.compuserve.com  
[149.174.177.131]) by nss2.CC.Lehigh.EDU (8.8.2/8.8.2) with SMTP id OAA23590 for  
<QRP-L@Lehigh.edu>; Tue, 22 Oct 1996 14:29:23 -0400  
Received: by hil-img-1.compuserve.com (8.6.10/5.950515)  
id OAA18497; Tue, 22 Oct 1996 14:28:48 -0400  
Message-Id: <961022182651\_76443.501\_GHN60-3@CompuServe.COM>  
From owner-qrp-l@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: kd1jv@juno.com (Steven Weber)  
Subject: [2585] RE: AD811  
Message-ID: <19961022.155854.2119.1.KD1JV@juno.com>

I got the October 1 issue of ED and can't find the mentioned circuit. I believe this is the latest issue. I don't remember seeing a 1 watt transmitter in the recent past either. I lost the original post, so not sure exactly which issue to look in. The first thing I check out when I get my ED is the Ideas for design and Pease Porridge.

>From the AD data book, the AD811 is a current feedback video amp with a 140 Mhz @ 3 dB bandwidth. 2500 V/us slew rate. mighty fast. Will drive up to 100 ma and has 9 ohm output impedance. They don't give a power dissipation rating. It is designed to drive 75 ohm cables with video or

pulses. Maybe the ceramic package can do a watt. (which is the AN part)  
Quisent current is pretty hefty at 16 ma.

Newark lists them for \$8.53. But then they have a \$25.00 minimum order so better get a few of them.

I know this doesn't help much but is all I got.

de KD1JV Steve

From owner-qrp-l@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: Mike Boice <kd0fx@worldnet.att.net>  
Subject: [2547] Re: Altoids case source  
Message-ID: <1.5.4.32.19961022163807.006772c8@postoffice.worldnet.att.net>

Although I don't have a 40-9er, I spotted Altoids tins at a CostCo (part of the Price-CostCo membership warehouse chain). They were selling 12 packs of the tins for \$13.99. Bargain way to stock up!

73,  
mike KD0FX  
Richland WA QRP-L #576 QRP ARCI #9270

From owner-qrp-l@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: "Chris J. Cartwright - ELF" <dsc3cjc@imc220.med.navy.mil>  
Subject: [2550] Re: Altoids case source  
Message-ID: <Pine.3.89.9610221242.A3504-01000000@imc220>

On Tue, 22 Oct 1996, Mike Boice wrote:

> Although I don't have a 40-9er, I spotted Altoids tins at a CostCo (part of  
> the Price-CostCo membership warehouse chain). They were selling 12 packs of  
> the tins for \$13.99. Bargain way to stock up!

Lemme see, 49er in a Altoids tin, Altoids battery pack, Altoids tuner, Altoids keyer, Altoids watt meter, Altoids "gadget" case... nope, can't use a dozen. Hey, would that make the 49er a "rack" system?

Actually I got my tins at Giant Foods, \$1.99 a tin, but you can get 'em qty one each. :)

-- Chris Cartwright N3XRV Gaithersburg, MD | dsc3cjc@imc220.med.navy.mil --  
-- EMPS QS0s=0 STATES(w/c)=0/0 DX=0 FOX=0 | QRP-L #655 QRP-ARCI #9271 --

From owner-qrp-1@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: Bob Hightower <ki7mn@dancris.com>  
Subject: [2553] Re: Altoids case source  
Message-ID: <199610221705.KAA21813@dancris.com>

>Date: Tue, 22 Oct 1996 09:51:46  
>To: kd0fx@worldnet.att.net  
>From: Bob Hightower <ki7mn@dancris.com>  
>Subject: Re: Altoids case source  
>Cc: dqrp-1@lehigh.edu  
>  
>At 09:38 AM 10/22/96 -0700, you wrote:  
>>Although I don't have a 40-9er, I spotted Altoids tins at a CostCo (part of  
>>the Price-CostCo membership warehouse chain). They were selling 12 packs of  
>>the tins for \$13.99. Bargain way to stock up!  
>>  
>  
>I mentioned to the folks at work that I had put together a xcvr in an  
Altoids tin, and, unknown to me, several of them are addicted to the mints!  
So, as a result, I am periodically presented with empty tins. Nice, huh?  
>  
73,  
Bob KI7MN NorCal 1221 ARCI 8918 Qrp-1 271 CQC 274 ARRL (Not in any  
order of importance!)

From owner-qrp-1@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>  
Subject: [2591] Re: Antenna modeling  
Message-ID: <Pine.SOL.3.94.961022203949.14473B-100000@utkux4.utcc.utk.edu>

The main NEC-2 programs available to amateurs for under \$100 are three:

EZNEC by W7EL (Roy Lewallen): a DOS-based program with a user-friendly interface. It has a big brother, EZNEC-M for unlimited wire segments, but EZNEC is limited to 500 (more than enough for 90% of amateur modeling). Manual is on disk. A MININEC version (ELNEC is also available).

NEC-Wires by K6STI (Brian Beezely): also a DOS-based program--a little less intuitive but with capabilities of putting relational formulas into

the antenna description. Manual also on disk. A0 is a MININEC program with antenna optimizing capability.

NEC-WIN Basic by Paragon Technologies: a Windows-based program (works on 3.1 or 95) with spreadsheet style antenna description, Windows-level graphics for patterns. Manual is separately printed. Also has a big brother, NEC-Win Pro, with virtually unlimited segment capacity and linear graphing of many parameters.

Ads for these programs appear in most ham magazines, although Paragon may only appear in Communications Quarterly.

Rockaway, one of the developers of MININEC (which is less capable than NEC-2 in the public domain version) has produced a much more competent MININEC which rivals NEC-2--available only in a big-brother version.

Big Borthor = \$400 range +/-.

I have used all, reviewed some, beta tested some, use all at least occasionally depending on the modeling job to be done. User needs determine which is best to get, so suggest you get literature from sources for details of program structures so you can make a good long-term selection.

-73-

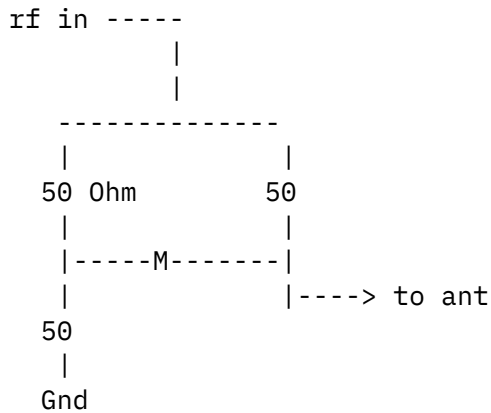
LB, W4RNL

From owner-qrp-1@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: "Dan Tayloe-P26412" <Dan\_Tayloe-P26412@email.mot.com>  
Subject: [2573] Re: blew the critter up  
Message-ID: <M27555620.002.p0m51.1.961022195405Z.CC-MAIL\*/OU=SATCG/OU=AZBH/  
PRMD=MOT/ADMD=MOT/C=US/@MHS>

Duane:

Oh well.... Been there, done that....

The kind of SWR bridge I use for QRP work is a resistive bridge. The ARRL handbook talks about this. In the simplest form, the voltage is measured across the two centers of a bridge circuit. The XCVR drives the top of the bridge, and the antenna is one of the bottom legs of the bridge. The other three legs are 50 ohm resistors.



The meter circuit in the center is your basic diode/cap/variable resistor/meter rf voltmeter combination.

Set the meter to full scale by *\*disconnecting\** the antenna. This is the same as full scale SWR. Connect the antenna. If it is 50 Ohm, the bridge is balanced and *\*no\** rf is across the meter. Therefore, a tuner can be used to tune for minimum voltage. No voltage = 1:1 SWR.

For operation, switch the bridge out completely and connect the rf in to the antenna and disconnect the bridge, unless you happen to actually *\*want\** to run with 1/4 of your normal power output going to the antenna.

The really neat thing is that into an open circuit, the rig sees 100 ohm (one side of the bridge). Into a short circuit, the rig sees 33.3 ohms (100 ohms one side in parallel with 50 ohms the other side). Into a 50 ohm antenna, the rig sees 50 ohms (100 one side of the bridge in parallel 100 the other side).

In other words, the rig will *\*always\** see something in the range of 33.3 to 100 ohms *\*no matter how bad\** the mismatch really is. This is a *\*much\** tamer range to load into than going straight into a tuner and will help to protect your next final.

In my bridge, each of the 50 ohm loads above is 6 1/4 watt 330 ohm resistors. This actually gives 55 ohms which is close enough for me. This also gives 1.5 watts power rating per R, or 6 watts total (four legs to the bridge) for the circuit when working into a 50 ohm load. Since resistors do not like to be used at more than half their rated wattage, this is good only for intermittent service at 5 watts input. You may want more margin than that.

Good Luck!

- Dan Tayloe, KK7BD, Phoenix, AZ QRP1 # 696

P.S. In my homebrew XCVR, I used a MOSFET IRF510 (\$1.00) for the final. It gives only about 50% efficiency at 40m (your typical RF transistor will yields at least 60%), but it is good for up to 100v, giving me a bit more SWR safety margin than most devices I see used as QRP finals (30 or 40v ratings).

>Ok guy's I blew the critter up. MY Explorer II that is. I was loading  
>it into a 100 foot ladder line and 140 foot dipole thru a tuner, I  
>noticed the output power was full scale but soon started dropping, let  
>off the key , key down again full power then started dropping again  
>next time no output. :(

>Duane AB4BE  
><http://www.flinet.com/~duane>  
>[duane@flinet.com](mailto:duane@flinet.com)  
>[ab4be@amsat.org](mailto:ab4be@amsat.org)

From owner-qrp-1@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: "David D. Meacham" <[ddm@datatamers.com](mailto:ddm@datatamers.com)>  
Subject: [2583] Re: Cascade oscillation  
Message-ID: <[Pine.LNX.3.91.961022170432.6045B-100000@dt1.datatamers.com](mailto:Pine.LNX.3.91.961022170432.6045B-100000@dt1.datatamers.com)>

Yin,  
It sounds like you may not have added the ground strap to the rear panel.  
The panel needs a good ground to the board as close to the PA transistor  
as possible. This cures a ground loop through the low-level stages.  
72, Dave, W6EMD

From owner-qrp-1@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: "James C. Owen, III" <[owen@apollo.eeel.nist.gov](mailto:owen@apollo.eeel.nist.gov)>  
Subject: [2520] RE: Cutting coax braid  
Message-ID: <[32860.owen@apollo.eeel.nist.gov](mailto:32860.owen@apollo.eeel.nist.gov)>

In message Mon, 21 Oct 1996 13:46:25 -0700,  
[mbarnes@islandnet.com](mailto:mbarnes@islandnet.com) (Mary Barnes) writes:

> My usual technique is to unbraid it to the point where it is

> to be cut, use my diagonal cutters to snip it off and then try to smooth  
> things back in a reasonably neat way, but this is decidedly unsanitary.

I do it this way frequently but it takes some care.

> There must be a better way and everyone but me probably knows it.

There are a number of mechanical strippers for coaxial cable that do a great job. When set up properly they can make all the proper cuts with several twist around the cable. They are somewhat expensive at anywhere from \$24.00 and up. You should buy one for each type of cable you use, ie RG-58, RG-59, RG-8 etc, as it takes a while to get the adjustment just right for each cable and you don't want to mess it up for a different type. They are available from just about any supply house--Allied, Newark, Techni-tool, look under the heading "Strippers--Coaxial".  
73 Jim K4CGY qrp-1 #72

From owner-qrp-1@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: Patrick Taber <ptaber@logiccraft.com>  
Subject: [2525] RE: Cutting coax braid  
Message-ID: <1.5.4.32.19961022140237.008e250c@freebird>

>There are a number of mechanical strippers for coaxial cable that do a great  
>job. When set up properly they can make all the proper cuts with several  
>twist around the cable. They are somewhat expensive at anywhere from \$24.00  
>and up. You should buy one for each type of cable you use, ie RG-58,  
>RG-59, RG-8 etc, as it takes a while to get the adjustment just right for  
>each cable and you don't want to mess it up for a different type.

There's a line of cable-specific strippers -- they look like ovals with a hole at one end for the cable, and a hole at the other end for your finger so you can spin the cutter. Although you have to buy one for each cable type (How many do hams typically use?), there's no setup time and they work great. I thought they were expensive at first, but now, years later I realize they were a bargain.

>>>==>PStJTT

From owner-qrp-1@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: Stew Whitehouse <76443.501@CompuServe.COM>  
Subject: [2562] Re: Cutting coax braid  
Message-ID: <961022182651\_76443.501\_GHN60-3@CompuServe.COM>



Hi Bill,

One way to neatly trim the braid on coax is to tin the braid (be careful and don't melt the foam) and then score the tinned braid, where you want to cut it, with a pocket knife. Then, using pliers, break the braid where it is scored. I find that two pairs of pliers and a rocking motion will usually do the trick. I think I got this idea from a Hints and Kinks column in QST back in the sixties. I have installed a lot of PL-259s on RG-8 and RG-213 using this technique.

Hope this helps you.

72/3 Stew ke4yh

Dunedin, Florida

From owner-qrp-1@Lehigh.EDU Tue Oct 22 23:24:17 1996

From: Stew Whitehouse <76443.501@CompuServe.COM>

Subject: Re: Cutting coax braid

Hi Bill,

One way to neatly trim the braid on coax is to tin the braid (be careful and don't melt the foam) and then score the tinned braid, where you want to cut it, with a pocket knife. Then, using pliers, break the braid where it is scored. I find that two pairs of pliers and a rocking motion will usually do the trick. I think I got this idea from a Hints and Kinks column in QST back in the sixties. I have installed a lot of PL-259s on RG-8 and RG-213 using this technique.

Hope this helps you.

72/3 Stew ke4yh

Dunedin, Florida

-----27256D851682--

From owner-qrp-1@Lehigh.EDU Tue Oct 22 23:24:17 1996

From: talljazz@teleport.com (Dan Presley)

Subject: [2586] Re: Cutting coax braid

Message-ID: <v01530506ae92ff4cbdc5@[206.163.124.25]>

One trick I learned that works is to first 'tin' the braid with solder. A

thin diameter solder works best, or the solder paste that many use with the little propane torches. Next, take a pipecutter (can be obtained at a local hardware store) and use it to trim the braid-if you carefully adjust the cutting wheel on the pipecutter, the braid will slice off and leave the foam intact.

Dan N7CQR

From owner-qrp-l@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: Dale LeDoux <dledoux@laci.net>  
Subject: [2596] RE: Cutting coax braid  
Message-ID: <1.5.4.16.19961022204047.483f70f8@laci.net>

Another approach to cutting coax braid: tin the braid well, and then use a good sharp tubing cutter. A few raounds with a sharp wheel and the braid is cut through, leaving a neatly-tinned square end.

Dale LeDoux  
Bath Electrical Systems  
Power Specialists -- 480 V to 230 KV  
KD5QI -- QRP-L #602

From owner-qrp-l@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: "Bradley S. Mitchell" <bmitchel@kodak.com>  
Subject: [2540] Re: EMPS  
Message-ID: <326D15AA.2379@kodak.com>

If I can stay up that late, I may try it.  
I'm curious to see how I can do with 5w  
on the beacon antenna.

73 Brad WB8YGG

chuck adams wrote:

>  
> Gang,  
>  
> After you work Tim or after the session, if you can  
> still keep the eyelids open, move down to 3.560MHz  
> and see how 80m is doing. Hopefully the QRN will

> be quiet and we can hear each other.  
>  
> : Chuck Adams (K5FO CP-60) WAS 40m/30m/20m=49/49/50  
> : EMPS QS0s=2 STATES(w/c)=2/0 DX=0  
> : MO TN

From owner-qrp-1@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: jim seeber <u1002895@warwick.net>  
Subject: [2558] Re: Fall QRP test errata...  
Message-ID: <326D6D13.4C3E@warwick.net>

N0oct@aol.com wrote:

>  
> Had a great time in the contest! BTW, did anyone else on the list work  
> W1MK?? I worked him, and so did several others, and every time he gave QSS  
> as his SPC. What gives here?  
>  
> Most fun was working YS1ZRB on 15 meters! Couldn't operate long because of  
> weekend overload, but it was fun!  
>  
> 72, jim n0oct

Now i get it the QSS Q=--.- and MA = --.- if sent  
by a poor fist,malfunctioning keyer, etc, thus QSS = MASS,  
although MASS shud be sent as MA .. Anyway back to the  
straight key...c ya ...Jim kw3u

From owner-qrp-1@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: lhalliday@creo.bc.ca (laura halliday)  
Subject: [2587] Re: Female hams-Yes!  
Message-ID: <199610230034.RAA02796@BC.net>

Hmmm...at a large number of ham events I tend to be the only  
woman there, and even if there are other women there they are  
almost invariably non-technical no-code Basic hams who tagged  
along with their husbands or boyfriends.

I find many ham clubs are populated by an older generation of  
men who simply don't socialize with women. Never have, never  
will, and are baffled at the concept. Ham radio is a men's  
social club for them, and they can't see it any other way.  
The younger generation tend to be somewhat better, but, as  
always, there can be exceptions on both sides.

I vividly remember the Radio Amateurs of Canada convention in 1994, where people seemed totally weirded out at my presence and attempts at conversation produced blank stares. And the AMSAT convention last year where I had a ball. What a contrast!

I don't recall seeing a non-fiction ham radio book written by a woman, and can only think of three women who are involved with ham magazines for anything other than those insulting YL columns. Two of them are in England (G8IYA and G4JKS). The third is WB2MGP.

Yes, we need contributions, but we also need a climate of acceptance. I get lots of email on other ham radio lists that begin with salutations like "Gentlemen". The president of the local ham club has never once (as far as I can tell) acknowledged in his choice of pronouns that a ham might be a woman. Even on this list we have ahem...people suggesting withholding property (cars, lipstick, etc.) from their wives as a means of attaining an end.

Puke. It's totally inappropriate. And it's \*not\* funny.

P.S. Thanks, Paulette. Keep up the good work.

Laura Halliday VE7LDH	"C'est une femme mutine, assez
lhalliday@creo.com	elegante, grave et legere, ayant le
ve7ldh@amsat.org	sens du confort et du plaisir
Locator: CN89mg	en tout." - C. Deneuve

From owner-qrp-1@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: "Michael A. Gipe" <mgipe@reliablemeters.com>  
Subject: [2543] Re: FOX CA vs TX Game  
Message-ID: <199610221605.LAA07531@multi2.pic.net>

Oh-ohh. I think we're learning what happens when you get a Texan mad.  
Well done, Texas!

I heard that pesky fox peak out of the noise at RST 119 just once all night. I kept hoping for a meteor or something to give us some propagation. Didn't even hear much of the hounds.

Next one should be real interestin' - the fox bein' from Texas and all....

>

>

> October 22, 1996 Bottom of the Second CA-4 TX-3

>

From owner-qrp-1@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: gmdiana@kodak.com (Gary Diana )  
Subject: [2518] Re: FS: TenTec Scout  
Message-ID: <9610221212.AA08739@ash.bisco.kodak.COM>

The Scout has been sold.

73, Gary N2JGU  
gmdsr@vivanet.com

From owner-qrp-1@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: Stanley Wilson <microres@crl.com>  
Subject: [2534] Re: HB: Decal paper for Laser Printing  
Message-ID: <Pine.SUN.3.91.961022074526.987B-100000@crl8.crl.com>

I take my art work to Kinko's and have them do them (xerox) with "clear crack and peel". They can do them in red, green, blue or black. There's look clear after spraying with a clear dope, while some of the office supply places have a slight off white color. Costs less than a \$1 per sheet. Great for panels, model airplanes, etc.  
de stan ak0b

From owner-qrp-1@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: DCrespy@aol.com  
Subject: [2589] Re: Kenwood R-2000 Digital Display Cal  
Message-ID: <961022203911\_1645133486@emout15.mail.aol.com>

John,

I have one of them.. I like it but the BFO drifts over time.. its not really drift, it just seems to be in a slightly different new spot each time you turn it on.. I'd suggest realigning it. It is a slug tuned device accessable through a hole in the bottom plate, if you dont have the VHF module installed. If you do, the module is in the way. The first time you do it I'd suggest removing the bottom cover. There is enough info in the owners

manual to find it, but I do have a service manual if you get lost.

I'd also be sure that you are copying CW in the CW mode position.. The CW position IS a 500 Hz shift from SSB (CW IF freq is 455.6 not 455), and could account for the difference.. By the way I align the BFO by listening to it on the receiver! the zero beat should be equidistant from 455.0 Hz when switched between USB and LSB. Try it. It will be clear when you set it up.. As I remember, it will be at 456.5 and 453.5??

I have done a mod to add a variable capacitor tunable through the OTHER BFO "hole". If you are interested let me know. (I also have notes on a mod that turns the tone control into a BFO control.)

Have Fun !!!

Harry KG5LO Saline MI

From owner-qrp-1@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: "Michael A. Gipe" <mgipe@reliablemeters.com>  
Subject: [2578] Re: KF2PH  
Message-ID: <199610222149.QAA12304@multi2.pic.net>

N6WG wrote:

>... Sure appreciate your efforts in staying up late to give us left  
coasters a crack  
> at you, Nick. Only heard one signal from east of CO last night, a W5  
that  
> sounded kind of lost, like he was wondering where everyone was.  
>  
> Oh, well. Better luck (and propagation) next time.

Strange. Mostly what I heard while looking for the fox was W4's and Caribbean! No Texas, no southwest, no midwest, no northwest, no fox. W1AW was s9++. You're 20 miles away from me. I think those Minnesotans have made a secret deal with Texas to suck the ions out of the ionosphere. Call Sixty Minutes.

Mike K1MG  
Saratoga, CA

From owner-qrp-1@Lehigh.EDU Tue Oct 22 23:24:17 1996

From: 22-Oct-1996 0942 <randolph@asic.ENET.dec.com>  
Subject: [2526] re: More transistor questions!  
Message-ID: <9610221358.AA24751@us4rnc.pko.dec.com>

> Now, according to W1FB's book, the MRF475 should NOT be used for 12W  
> output given it's PD rating of 10W. How come it is rated, then, as a 12W  
> output device? Am I missing something here? Are these transistors  
> SWR-protected ones? BETs?

You have to read the manufacturer's databooks. The ratings are often under a specific set of conditions, for instance 12V Vcc, big heat sink, 70 degrees ambient temp. They are also usually given as maximum or typical. You don't really want to push a transistor to its maximum ratings for very long, which is what W1FB was trying to say.

> 2. How do I find out the base impedance of a transistor?

My experience says: take a guess. The answer you get will be as good as any. Motorola builds test amplifiers with widely adjustable matching networks. They tweak the networks until they get good power transfer into the base, then remove the transistor and measure the network with a vector impedance type meter. Obviously, we have to do something simpler. The impedance seen at the base goes lower as the power output goes higher. Look at a few schematics of working amps in the power range you need and make an educated guess from there. The only other thing to keep in mind is not to exceed the reverse breakdown of the B-E junction, which is often in the 5V range. Convert to a low enough impedance so that the voltage stays below that.

=====  
Tom Randolph N100Q NE-QRP 419 QRP-L 87 ARRL randolph@asic.enet.dec.com  
=====

From owner-qrp-l@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: "duane" <duane@flinet.com>  
Subject: [2594] Re: PA's, V+ and SWR  
Message-ID: <199610230213.WAA19898@shell.flinet.com>

the transistor I replaced the 4013 with was the 195 its Vceo is rated at 70volts. hope this helps all who asked.

Duane AB4BE  
<http://www.flinet.com/~duane>  
duane@flinet.com  
ab4be@amsat.org

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> From: Arjen Raateland, SYKE/YV, puh. 09 4030 0457  
 <Arjen.Raateland@vyh.fi>  
 > To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
 > Subject: HB: PA's, V+ and SWR  
 > Date: Tuesday, October 22, 1996 4:29 AM  
 >  
 > Duane wrote:  
 > For your information folks the 4013 is no longer produced. I learned that  
 > it was not very tolerant to high SWRs either. Anyways I replaced mine  
 with  
 > --  
 >  
 > Question to the experts:  
 > Earlier the Vceo of the 4013 was quoted as 30 Volt, which is a tad low  
 > for a PA at 12 V nominal, I think. What do we know about the  
 > connection of power output (at normal load, supply voltage and  
 > breakdown at high SWR? I suppose the drive level might go into the  
 > equation, too.  
 >  
 > In particular: If a PA transistor with a Vceo of 30 Volt runs 5 Watt  
 > out instead of 2 Watt, would it be more likely to break down if the  
 > SWR gets high? Supply voltage is assumed constant at 13.8 Volts.  
 >  
 > 73, Arjen, OH2ZAZ  
 >  
 > Arjen Raateland  
 > Suomen Ymp rist keskus / YV  
 > ---... --- -- ... . --- ..... ..--- ---.. ..- ---..  
 > Finnish Environment Institute, Helsinki, Finland  
 > SAS Support  
 > EMAIL: Arjen.Raateland@vyh.fi  
 > tel. +358 9 4030 0457  
 > fax +358 9 4030 0490  
 > .-.-. -.-  
 >

From owner-qrp-1@Lehigh.EDU Tue Oct 22 23:24:17 1996  
 From: Hank Kohl <k8dd@tir.com>  
 Subject: [2508] Re: Sweepstakes CW November 1996  
 Message-ID: <2.2.32.19961022014817.006a86b0@tir.com>

At 13:31 10/21/96 -0400, ptaber@logicraft.com wrote:  
 >Great tips from Chuck on the November Sweepstakes --  
 >  
 >>  
 >> CT is shareware and if someone finds it on the internet, post the



>> ftp site. I'm running I think 6.26 version which is an old one.  
>> I need to fork up the \$40 and get the latest again.  
>  
>I don't believe this is true. CT is expensive-ware and not all that  
>necessary for Sweepstakes. If you know how to run a dupe sheet, a pencil is  
>a lot faster on Sweepstakes than CT is. I don't think the top 10 started  
>using computer logging for SS until recently.  
>

6.26 is considered shareware. Ver 8 and above are not. I have CT 9.27 and  
NA 10.04. Normally use NA. The "top 10" have been using CT and/or NA for  
at least 5 years and maybe more.

I would agree that a paper log may be faster if you are going to sustain  
a 60+ per hour overall rate, but you are not going to do much duping. Long  
time ago (in the mid 70's) it was bugs and keyers. Then came memory keyers  
with 256K of memory - rates went up. Then came the AEA CK-1 - rates went up  
again. With every step of sophistication in memory keyers the rates went up  
and the dupes went down because you could check the dupe sheet while the  
memory was playing. Now with computers and keying interfaces and radio  
interfaces, you don't need a pencil....you don't need a paddle beside the  
keyboard.

RUFZ is a neat program to increase your speed. NA has a "practice" feature  
where you call CQ and calls come back to you, complete with an exchange. A  
really nice way to practice for whatever CW contest it is that you are about  
to enter.

>>  
>>6. Secret beginners hint: [...]

Never think of your self as weak. Never. You might not be loud, but you  
are not weak. I have been on the other side of the pileup to know that  
the loudest station is not always the one that gets answered. But, as Chuck  
says, if you call 3 times and the station does not respond, move on.

>>[...] In summary [...]  
>>4. Have fun.

Aaaayup.....It's a hobby.

73 Hank K8DD

\*/ Hank Kohl K8DD k8dd@contesting.com <---- new  
\*/ MI-QRP - Vice Pres. QRP-ARCI - Director  
\*/ G-QRP ARRL/LM QCWA/LM QCAO/LM

From owner-qrp-1@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: Monte Stark <ku7y@sage.dri.edu>  
Subject: [2522] Re: Sweepstakes CW November 1996  
Message-ID: <Pine.SUN.3.90.961022062326.21652A-100000@vortex.sage.dri.edu>

On Tue, 22 Oct 1996, Hank Kohl wrote:

> 6.26 is considered shareware. Ver 8 and above are not. I have CT 9.27 and  
> NA 10.04. Normally use NA. The "top 10" have been using CT and/or NA for  
> at least 5 years and maybe more.

Don't forget the logging program from N6TR. There is a trial version  
for free use. I tried it, liked it and bought the new one!

Look on the web for the KA9FOX page. From there you will find the N6TR  
info. (Or go to most any contest site. They have links to all the  
programs).

> RUFZ is a neat program to increase your speed. NA has a "practice" feature  
> where you call CQ and calls come back to you, complete with an exchange. A  
> really nice way to practice for whatever CW contest it is that you are about  
> to enter.

N6TR will also do the contest simulation and this is a great way to get  
in shape!

> >>[...] In summary [...]  
> >>4. Have fun.  
>  
>  
> Aaaaayup.....It's a hobby.  
>

When you hear the ice box calling you the next day, you know  
you had fun!!

cul,

73, Ron,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....  
....ku7y@sage.dri.edu.....Washoe Lake, Nevada.....  
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

From owner-qrp-l@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: Patrick Taber <ptaber@logiccraft.com>  
Subject: [2523] Re: Sweepstakes CW November 1996  
Message-ID: <1.5.4.32.19961022135714.00907a24@freebird>

>When you hear the ice box calling you the next day, you know  
>you had fun!!

>

I still remember the anxiety dream I had early Monday morning trying to dig out the exchange my baseboard sent when the heat came on. The other "contest hangover" symptom is the ability to hear conversations five offices away. It's spooky. I love it.

>>>==>PStJTT

From owner-qrp-l@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: kd1jv@juno.com (Steven Weber)  
Subject: [2545] RE: teflon wire  
Message-ID: <19961022.104351.7295.3.KD1JV@juno.com>

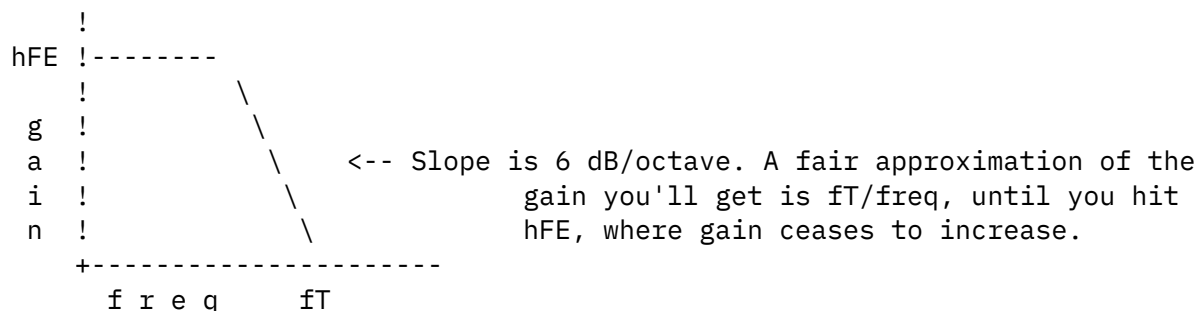
Got my teflon wire from Jim today. Very nice. Lost Jim's email address when I transferred Juno from one computer to another, along with a lot of other peoples.

So thanks Jim, great deal.

de KD1JV, Steve

From owner-qrp-l@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: 22-Oct-1996 0956 <randolph@asic.ENET.dec.com>  
Subject: [2528] re: Transistor question  
Message-ID: <9610221416.AA26640@us4rmc.pko.dec.com>

> 1. How does power gain relate to  $f_T$  and  $h_{FE}$  of a transistor? When I look at



> 2. How do we determine the optimal input power for a transistor? For

> sport a 15dB power gain so why can't I simply use the 477 in place of a  
> 476?

You can, but the transistors are designed for a specific voltage and power in/out. Generally, they will perform as specified if you meet all the conditions, and perform somewhat poorer if you don't. If you don't mind doing a lot of tweeking to get what you need out of them, go ahead and use them.

> 3. Why are some RF transistors specified for work at specific voltages? Are

Yes, as you suspected, they will perform poorer at lower voltages. You can probably get some power out, but expect it to go down as the square of the voltage difference, i.e. 1/2 the rated voltage, 1/4 the power out.

> 4. This concerns driver transistors. Does anyone have the specs of the  
> 2N5109, 2N3553 and the 2N3904 in a comparable format, especially  
> specifying the power output and power gain at RF? For example, the

Power gain is approx.  $f_T/\text{operating freq}$ , as above. Power then output depends on power input, type of amp (class C, output load, etc) and don't exceed the max. ratings. That's about it, really.

From owner-qrp-1@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: Cecil A Moore <Cecil\_A\_Moore@ccm.ch.intel.com>  
Subject: [2541] Re: trap dipoles and tuners

>Daniel Wee wrote:

>In particular, I am thinking of a 20/40 meter dipole with 20M traps.

Hi Daniel, why not put up a 30 meter dipole, forget the traps, feed it with ladder-line and work 40m-10m on it with a tuner. Traps are

a pain to build or buy and maintain. You can perform the conjugate matching function with your tuner at the rig.

>I am actually using this (tuner) to reduce the SWR on my 20M dipole  
>to 1:1.

Don't know if you really meant to say that. Your tuner *\*does not\** "reduce the SWR on (your) 20M dipole". Tuners cannot affect the SWR between the tuner and the antenna. The tuner reduces the SWR between the rig and the tuner by achieving a conjugate match which re-reflects almost all the reflected energy back to the antenna.

73, Cecil, W6RCA, 00TC (not speaking for my employer)

From owner-qrp-l@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: Sterling <slombard@primenet.com>  
Subject: [2584] re: VFO  
Message-ID: <Pine.BSI.3.95.961021103014.21069D-1000000@usr07.primenet.com>

Thanks for the information.... actually this helps me out a lot! I currently have the schematic for the Norcal 40.... and I think I'll use it to help me. It seems as though the two books that I've seen references to is the DeMaw books, and the Solid State Design book. I think I'll pick both of them at HRO here in Phoenix. Thanks for the hints!

-Sterling W. Lombard (KB7JTZ)  
<http://www.primenet.com/~slombard>

On Mon, 21 Oct 1996, Ori Mizrahi-Shalom wrote:

>  
> Almost any basic book covers this topic. Try Doug DeMaw's books or  
> the "Solid State Design for the Radio Amateur", all are available  
> from the ARRL or HRO.  
> If you subscribe to QRPp, look in the 6/96 edition.  
> The glitches are many.  
> You mentioned a 30M radio - 10.1 MHz plus. That's way too high for  
> the common LC VFO designs. You will experience drift and instability.  
> The best way to go is to build a 2 MHz VFO - clone the Norcal 40's -  
> and then feed its output through 5pF to pin 1 of an NE602 chip.  
> The NE602 oscillator should be set at 8MHz with a crystal.  
> The output is taken from pin 4 or 5 via another 5pF to a tuned circuit  
> (parallel inductor and trimmer to ground) and the output from that  
> via 5pF is your "VFO" signal.

>  
> GL  
>  
>  
> ORI AC6AN  
>

From owner-qrp-1@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: Denton Larson <dlarson@ic.waseca.mn.us>  
Subject: [2556] Re: Web address for KA9FOX?  
Message-ID: <1.5.4.32.19961022174230.006d9d60@ic.waseca.mn.us>

At 10:35 AM 10/22/96 -0400, you wrote:

>Hi gang,  
>  
>Does anyone know the web address for KA9FOX?  
>  
>Tnx for info.  
>  
>72 Kevin KB2TE0  
>  
>

Kevin, My book mark shows the address for KA9FOX web address is  
<http://www.qth.com/ka9fox/>  
Denton K. Larson [dlarson@ic.waseca.mn.us](mailto:dlarson@ic.waseca.mn.us)  
WB0ZUR QRP-L #414 QRP ARCI #9116 NORCAL #1563  
Waseca, Minnesota USA

From owner-qrp-1@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: 22-Oct-1996 1350 <randolph@asic.ENET.dec.com>  
Subject: [2561] re: Yet more transistor Qs ... matching  
Message-ID: <9610221823.AA16569@us4rnc.pko.dec.com>

>  $I_e = 2.3V / 47\text{ohms} = 49\text{mA}$   
>  $R_{in} = 25 * B(ac) / I_e$   
>  $= 25 * 21 / 49 = 10.7 \text{ ohms}$   
> \* Note:  $I_e$  is in mA, see example in Solid State Design by Hayward, pg.20  
> I don't know if this is correct. If not, then  $R_{in}$  would be 10.7 kohms.

Yes, that's right. It's an approximation based on diode junction physics. If you had an emitter degeneration resistor, this wouldn't apply, but your emitter resistor is bypassed.

> I look at the filter output on a scope with the amplifier powered down, I  
> see a perfect sine wave. With the amplifier powered up, the sine wave  
> becomes severely distorted. This may be an indication of the mismatch?

Yup, not unusual to see a real mess at the base. The impedance changes rather drastically at different points of the waveform. I always disconnect the base of the transistor if I need to look at the signal there.

>  $I_b = E_{in} / R_{in}$   
>  $= 0.5V / 10.7\Omega = 47mA$  ???

Yes, under matched conditions. You're driving from a 50 ohm filter, so there's a power loss. The base isn't purely resistive, it has some capacitance, so there's some more power lost. Also, if you measured the pk voltage with the amp powered off, the impedance terminating the filter would have been very high. To get a real idea of what kind of power is available to the base, you should lift the base lead and replace it with a ~10.7 ohm resistor to ground. The resistor won't make an unreadable mess of the waveform.

> Collector signal current is:-  
>  $I_c = B(ac) * I_b$   
>  $= 21 * 47mA = 0.99A$  !!!!

Only if the base were accepting all the power. The thing to do might be to measure your power output, then lift the base lead and tack a 50 ohm resistor on the filter output. Measure what the power input should be across the resistor. Now you can figure out how much your losing to the mismatch.

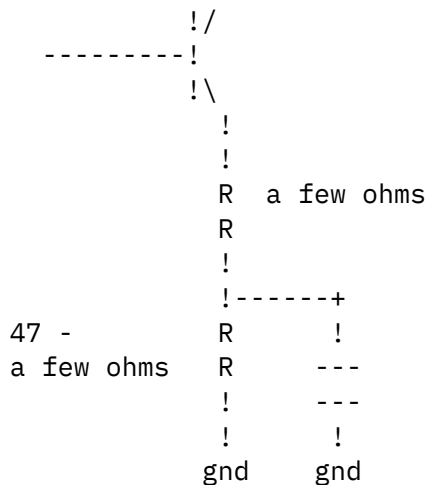
BTW, look at the "Power Amps and Impedance Matching" chapter of Solid State Design. Several of the amps use a 4:1 bifilar-wound toroid to match the base impedance to 50 ohms. Sounds like exactly what you need.

```
=====
Tom Randolph N100Q NE-QRP 419 QRP-L 87 ARRL      randolph@asic.enet.dec.com
=====
```

From owner-qrp-l@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: 22-Oct-1996 1423 <randolph@asic.ENABLE.dec.com>  
Subject: [2563] re: Yet more transistor Qs ... matching  
Message-ID: <9610221831.AA17606@us4rnc.pko.dec.com>

Oh yah, one other thing, Daniel...

Adding a few ohms of resistance to the emitter might be the easiest way to get a 50 ohm input impedance:



From owner-qrp-l@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: "Dana H. Myers" <myers@bigboy.West.Sun.COM>  
Subject: [2569] re: Yet more transistor Qs ... matching  
Message-ID: <Roam.3.0.1.846010806.7534.myers@bigboy>

[Daniel's material deleted - about amplifier used to terminate a filter]

When using an amplifier to terminate a filter, I believe it is important to pay attention to the broadband match, and I tend to avoid using reactive networks that can/will interact with the filter to distort the shape.

I'd suggest an amplifier that uses feedback for gain and impedance stabilization, such as described in Solid State Design around pages



188-189. I'd probably also use a 2N5179 or 2N5109, if available.

Dana KK6JQ  
Dana@Source.Net

From owner-qrp-1@Lehigh.EDU Tue Oct 22 23:24:17 1996  
From: "Dana H. Myers" <myers@bigboy.West.Sun.COM>  
Subject: [2572] re: Yet more transistor Qs ... matching  
Message-ID: <Roam.3.0.1.846010960.9239.myers@bigboy>

> Oh yah, one other thing, Daniel...  
> When you have emitter degeneration (unbypassed emitter resistance), the  
> transistor input impedance goes up. The approximation is:  $R_{in} = \beta * R_e$ ,  
> where  $R_e$  is the unbypassed part of the emitter resistance.  
>  
> Adding a few ohms of resistance to the emitter might be the easiest way to  
> get a 50 ohm input impedance:

Very true - though the hidden danger is the unbypassed emitter  
resistance may be well-matched to the common-base input  
impedance and therefore have a fairly strong influence on the  
amplifier noise figure.

Dana KK6JQ  
Dana@Source.Net